



CITY OF LODI COUNCIL COMMUNICATION

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AGENDA TITLE: Adopt Resolution Approving Plans and Specifications; Authorizing Advertisement for Bids for Lighted Crosswalk/Flashing Beacon Project, Elm Street at Loma Drive and at Mills Avenue, and on Mills Avenue (Various Locations); and Authorizing the City Manager to Execute Agreements to Implement the Project

MEETING DATE: April 20, 2005

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That City Council adopt a resolution approving the plans and specifications for the above project; authorizing advertisement for bids; and authorizing the City Manager to execute all necessary agreements to implement the project.

BACKGROUND INFORMATION: In cooperation with the Lodi Unified School District (LUSD) and Reese Elementary School Principal, City staff applied for State of California Department of Transportation (Caltrans) Safe Route to School (SR2S) grant funds for traffic calming features at the Elm Street and Mills Avenue intersection. At the February 24, 2004 Shirtsleeve session, staff reviewed with City Council several options for this intersection. The grant application anticipated installation of "bulb outs" at the four corners. Staff also discussed forwarding Caltrans a request for a funding extension to allow additional time to obtain accurate traffic information, given the construction of a new middle school in the area.

Caltrans authorized a one-year extension, and City staff performed additional traffic counts and met with school staff to discuss the proposed improvements (see attached exhibits). With the additional student traffic from the new middle school, we are not recommending the construction of bulb outs at the Elm Street and Mills Avenue intersection. This intersection currently has four-way stop controls, and the bulb outs would adversely affect the traffic flow, resulting in more congestion.

Since the funds were specific to improvements for the Reese Elementary School area, staff requested a scope modification for a flashing in-roadway lighted crosswalk and flashing school signage on Elm Street at Loma Drive. The reason for the recommendation is the Loma Drive crossing is currently uncontrolled and has 119 school-aged pedestrians crossing in the morning and 169 school-aged pedestrians crossing in the afternoon. This intersection is located directly in front of the Reese Elementary School. The flashing lighted crosswalk and signage will assist the students crossing Elm Street by warning motorists in advance of the pedestrian crossing, as well as at the crossing. In comparison, the pedestrian traffic at the Elm Street and Mills Avenue intersection ranges from 30 to 76 pedestrians per peak hour per crossing, and is controlled by stop signs.

The project will also include the installation of four flashing yellow beacons and school signage (Assembly D) in advance of the Reese Elementary School to warn motorists they are approaching a school zone. Also, a flashing all-way red beacon and street lights will be installed at the Elm Street and Mills Avenue intersection that has all-way stop control. The intersection currently has an adult crossing

APPROVED:

Blair King, City Manager

guard and student patrols. The flashing all-way red beacon will span on a cable connected to two new traffic signal standards that will warn motorists that they are approaching an all-way stop controlled intersection. The signal standards will provide lighting for the intersection and, in the future, will accommodate conversion for use as a traffic signal. The Elm Street and Mills Avenue intersection is on the City's Signal Priority Study List.

After reaching consensus with the school staff on the most effective improvements for the area, City staff requested a scope modification that was approved by Caltrans. We are requesting City Council authorize the City Manager to execute all necessary agreements, such as a Program Supplement and Master Agreement, for project funding. The plans and specifications are on file in the Public Works Department.

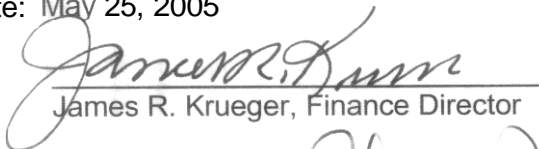
FISCAL IMPACT:

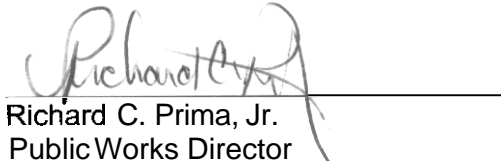
There are energy and annual maintenance costs for the electrical systems. The flashing beacons and in-roadway lighting system have Light Emitting Diodes (LED) which use minimal energy, costing approximately \$60 per year. The eight LED's flashing beacons will need to be replaced in five to ten years and cost less than \$100 each. Since Elm Street was reconstructed approximately seven years ago, the in-roadway lighting LED fixtures will not need to be replaced until the roadway *is* reconstructed in thirteen to fifteen years. At this time, the conductors and in-roadway LED bases will need to be replaced at a cost of approximately \$10,000.

FUNDING AVAILABLE:

The total project estimate is \$149,000 and includes construction, contingency costs, and upgraded electrical systems. The funding source is SR2S funds (maximum of \$128,700), and Transportation Development Act funds. The Electric Utility Department will upgrade the surrounding electrical system to provide electrical service to the new in-roadway flashing lighted crosswalk, four yellow flashing beacon systems, and one all-way red flashing beacon system with lighting for approximately \$6,000. The funding source for the electrical upgrade work is Transportation Development Act. A request for appropriation of funds will be made at contract award.

Planned Bid Opening Date: May 25, 2005

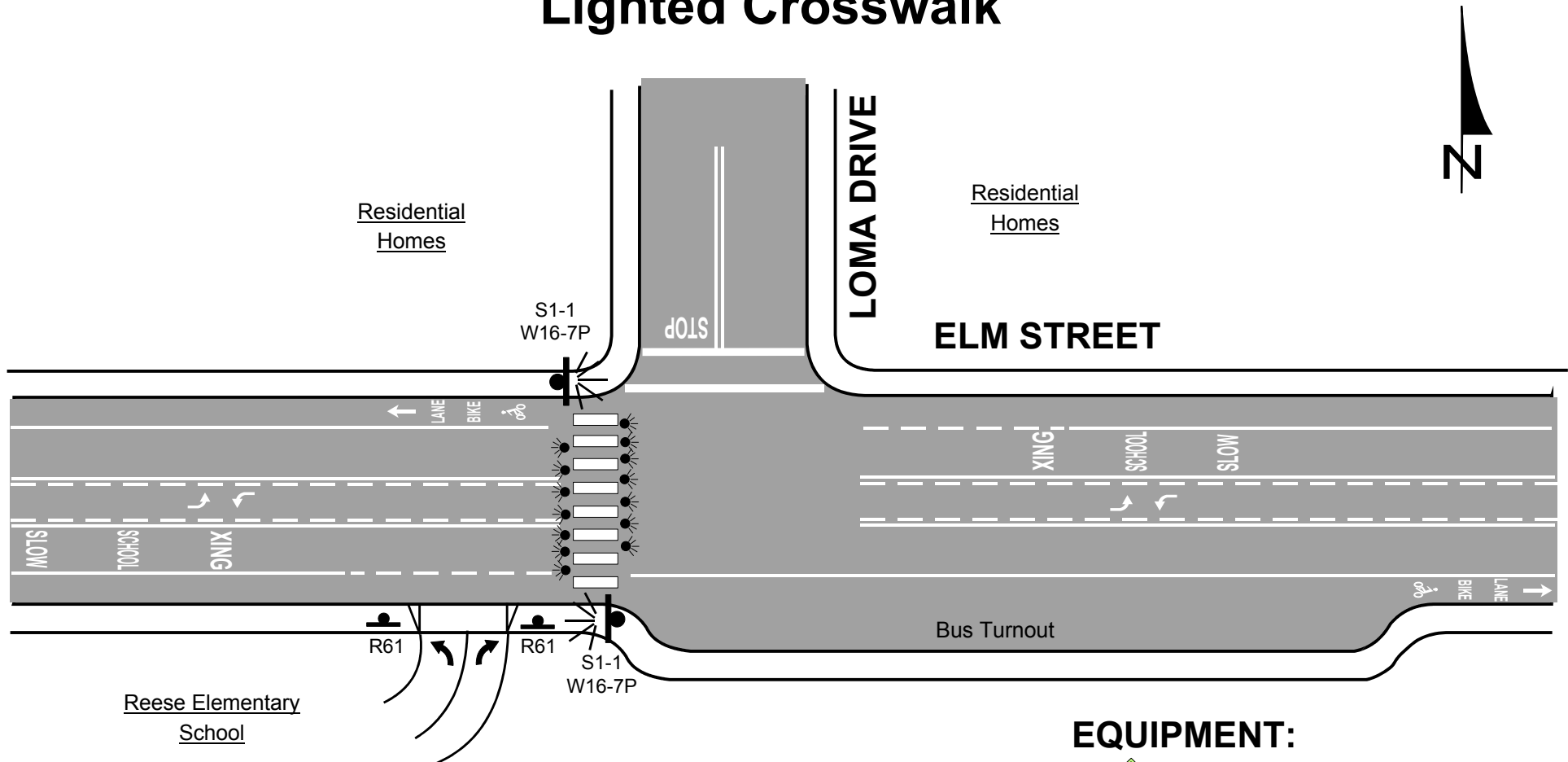

James R. Krueger, Finance Director


Richard C. Prima, Jr.
Public Works Director

Prepared by Paula J. Fernandez, Senior Traffic Engineer
RCP/PJF/pmf
Attachments
cc: City Attorney
Purchasing Officer
EUD Electrical Estimator David Comer
LUSD Reese Principal Bordner

Police Chief
Street Superintendent
Senior Traffic Engineer
Lodi PD Officer John Whisler

Elm Street at Loma Drive Lighted Crosswalk



OPERATION:

1. Pedestrian activates flashing warning light by push button.
2. In ground flashing yellow warning lights and lighted signs flash.

EQUIPMENT:



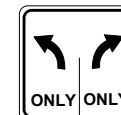
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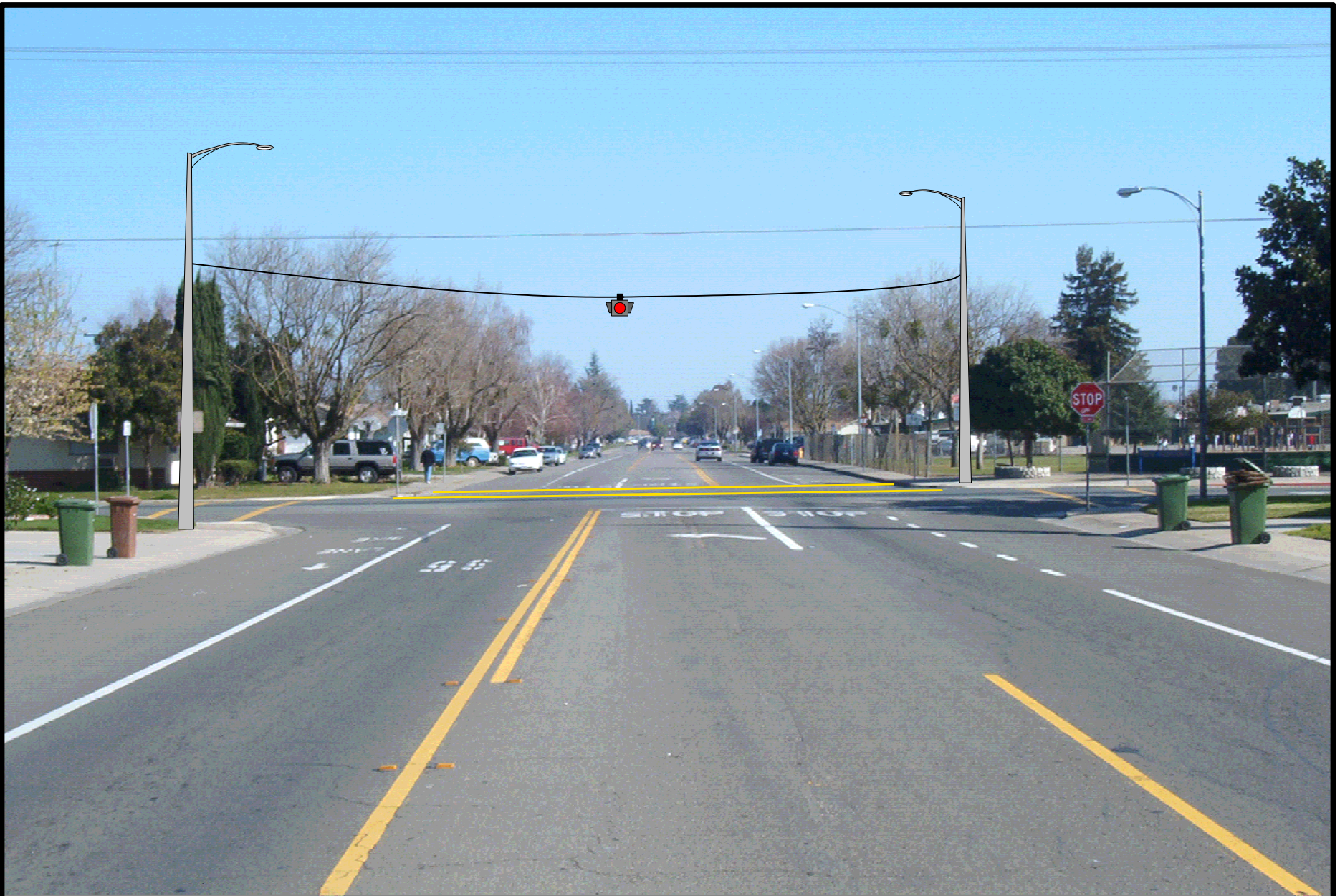
In Ground Light Assembly



R61



Elm Street at Mills Avenue (Looking East)
Advance Flashing Warning Lights (At All Approaches to School)



Elm Street at Mills Avenue (Looking East)
Overhead Flashing Beacon

RESOLUTION NO. 2005-82

A RESOLUTION OF THE LODI CITY COUNCIL APPROVING
PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT
FOR BIDS FOR LIGHTED CROSSWALK/FLASHING BEACON
PROJECT, ELM STREET AT LOMA DRIVE AND AT MILLS AVENUE,
AND ON MILLS AVENUE (VARIOUS LOCATIONS), AND FURTHER
AUTHORIZING THE CITY MANAGER TO EXECUTE AGREEMENTS
TO IMPLEMENT THE PROJECT

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WHEREAS, in cooperation with the Lodi Unified School District and the Reese Elementary School Principal, City staff applied for State of California Department of Transportation (Caltrans) "Safe Route to School" grant funds for traffic calming features at the Elm Street and Mills Avenue intersection; and

WHEREAS, at the February 24, **2004**, Shirtsleeve Session, staff reviewed with City Council several options for this intersection. The grant application anticipated installation of "bulb outs" at the four corners. Staff also discussed forwarding Caltrans a request for a funding extension to allow additional time to obtain accurate traffic information, given the construction of a new middle school in the area; and

WHEREAS, Caltrans authorized a one-year extension, and City staff performed additional traffic counts and met with school staff to discuss the proposed improvements. With the additional student traffic from the new middle school, staff is not recommending the construction of the bulb outs at the Elm Street and Mills Avenue intersection. This intersection currently has four-way stop controls, and the bulb outs would adversely affect the traffic flow, resulting in more congestion; and

WHEREAS, since the funds were specific to improvements for the Reese Elementary School area, staff requested a scope modification for a flashing in-roadway lighted crosswalk and flashing school signage on Elm Street at Loma Drive, due to the fact that the Loma Drive crossing is currently uncontrolled and has **119** school-aged pedestrians crossing in the morning and **169** school-aged pedestrians crossing in the afternoon; and

WHEREAS, the project will also include the installation of four flashing yellow beacons and school signage in advance of the Reese Elementary School to warn motorists they are approaching a school zone. Also, a flashing all-way red beacon, which will span on a cable connected to two new traffic signal standards, and street lights will be installed at the Elm Street and Mills Avenue intersection that has all-way stop control. The signal standards will provide lighting for the intersection and, in the future, will accommodate conversion for use as a traffic signal; and

WHEREAS, staff is requesting City Council authorize the City Manager to execute all necessary agreements, such as a Program Supplement and Master Agreement, for project funding.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby approve the plans and specifications, authorize advertisement for bids for Lighted Crosswalk/Flashing Beacon Project, Elm Street at Loma Drive and at Mills Avenue, and on Mills Avenue (Various Locations), and authorize the City Manager to execute agreements to implement the project.

Dated: April 20, 2005

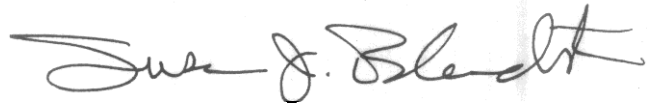
I hereby certify that Resolution No. 2005-82 was passed and adopted by the City Council of the City of Lodi in a regular meeting held April 20, 2005, by the following vote:

AYES: COUNCIL MEMBERS – Hansen, Hitchcock, Johnson, Mounce,
and Mayor Beckman

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON
City Clerk

CITY COUNCIL

JOHN BECKMAN, Mayor
SUSAN HITCHCOCK
Mayor Pro Tempore
LARRY D. HANSEN
BOB JOHNSON
JOANNE L. MOUNCE

CITY OF LODI

PUBLIC WORKS DEPARTMENT

CITY HALL, 221 WEST PINE STREET

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BLAIR KING

City Manager

SUSAN J. BLACKSTON

City Clerk

D. STEVEN SCHWABAUER

City Attorney

RICHARD C. PRIMA, JR.

Public Works Director

April 14, 2005

Reese Elementary School
Celeste Bordner, Principal
1800 W. Elm Street
Lodi, CA 95242

Lodi Unified School District
John Whisler, Police Services
1305 E. Vine Street
Lodi, CA 95240

SUBJECT: Adopt Resolution Approving Plans and Specifications; Authorizing Advertisement for Bids for Lighted Crosswalk/Flashing Beacon Project, Elm Street at Loma Drive and at Mills Avenue, and on Mills Avenue (Various Locations); and Authorizing the City Manager to Execute Agreements to Implement the Project

Enclosed is a copy of background information on an item on the City Council agenda of Wednesday, April 20, 2005. The meeting will be held at 7 p.m. in the City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the regular calendar for Council discussion. You are welcome to attend.

If you wish to write to the City Council, please address your letter to City Council, City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's card (available at the Carnegie Forum immediately prior to the start of the meeting) and give it to the City Clerk. If you have any questions about communicating with the Council, please contact Susan Blackston, City Clerk, at 333-6702.

If you have any questions about the item itself, please call Paula Fernandez, Senior Traffic Engineer, at 333-6800, extension 2667.



for: Richard C. Prima, Jr.
Public Works Director

RCP/pmf

Enclosure

cc: City Clerk